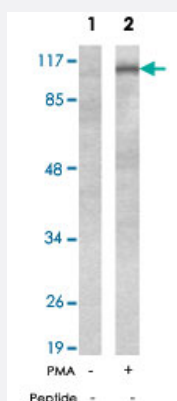


# PTK2B (phospho Y402) polyclonal antibody

Catalog # PAB25351

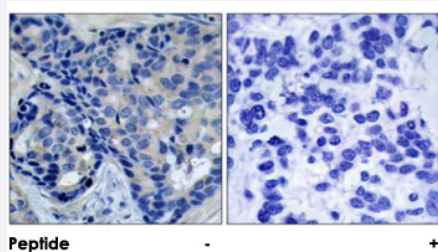
Size 100 ug

## Applications



### Western Blot (Cell lysate)

Western blot analysis of extract from Jurkat cells, untreated or treated with PMA (1 ng/mL, 5 min), using PTK2B (phospho Y402) polyclonal antibody (Cat # PAB25351).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using PTK2B (phospho Y402) polyclonal antibody (Cat # PAB25351).

## Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of PTK2B.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding Y402 of human PTK2B.
Sequence	D-I-Yp-A-E
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid

Purification	Affinity purification
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (without $Mg^{2+}$ and $Ca^{2+}$ ), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

Western blot analysis of extract from Jurkat cells, untreated or treated with PMA (1 ng/mL, 5 min), using PTK2B (phospho Y402) polyclonal antibody (Cat # PAB25351).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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## Gene Info — PTK2B

Entrez GeneID	<a href="#">2185</a>
Protein Accession#	<a href="#">Q14289</a>
Gene Name	PTK2B
Gene Alias	CADTK, CAKB, FADK2, FAK2, FRNK, PKB, PTK, PYK2, RAFTK
Gene Description	PTK2B protein tyrosine kinase 2 beta
Omim ID	<a href="#">601212</a>
Gene Ontology	<a href="#">Hyperlink</a>

**Gene Summary**

This gene encodes a cytoplasmic protein tyrosine kinase which is involved in calcium-induced regulation of ion channels and activation of the map kinase signaling pathway. The encoded protein may represent an important signaling intermediate between neuropeptide-activated receptors or neurotransmitters that increase calcium flux and the downstream signals that regulate neuronal activity. The encoded protein undergoes rapid tyrosine phosphorylation and activation in response to increases in the intracellular calcium concentration, nicotinic acetylcholine receptor activation, membrane depolarization, or protein kinase C activation. This protein has been shown to bind CRK-associated substrate, nephrocystin, GTPase regulator associated with FAK, and the SH2 domain of GRB2. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Four transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq]

**Other Designations**

CAK beta|OTTHUMP00000128275|OTTHUMP00000162913|calcium-dependent tyrosine kinase|cell adhesion kinase beta|focal adhesion kinase 2|proline-rich tyrosine kinase 2|protein kinase B|protein tyrosine kinase 2 beta|related adhesion focal tyrosine kinase

**Pathway**

- [Calcium signaling pathway](#)
- [Chemokine signaling pathway](#)
- [GnRH signaling pathway](#)
- [Leukocyte transendothelial migration](#)
- [Natural killer cell mediated cytotoxicity](#)

**Disease**

- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Hypertension](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)

- [Melanoma](#)
- [Skin Neoplasms](#)
- [Tobacco Use Disorder](#)